CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

/Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CEMENT/2016-17 Date: 03.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
*NAME OF THE WORK	:	Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/SSD/PR/57/2016-17 Dated: 02.09.2016
SAMPLE ID	:	Cement - Sample 1
SAMPLE RECEIVED ON	:	02.09.2016
PERIOD OF TESTING	:	02.09.2016 to 03.09.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/SAND-Gradation/2016-17 : 03.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - Sample 1

Sample Received on : 02.09.2016

Date of Testing : 03.09.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.70	90-100	90-100	90-100	95-100
2.36	76.80	60-95	75-100	85-100	95-100
1.18	55.00	30-70	55-90	75-100	90-100
600 Micron	25.80	15-34	35-59	60-79	80-100
300 Micron	14.60	5-20	8-30	12-40	15-50
150 Micron	5.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/AGG/GR/2016-17 : 03.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) -Sample 1

Sample Received on : 02.09.2016

Date of Testing : 03.09.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.83	95-100	85-100
20	37.99	30-70	0-20
10	15.84	10-35	0-5
4.75	4.19	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/AGG/GR/2016-17 : 03.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm) - Sample 1

Sample Received on : 02.09.2016

Date of Testing : 03.09.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.90	95-100	85-100
10	30.94	25-55	0-20
4.75	6.64	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.13/KRIDL /STEEL/2016-17

06.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/57/2016-17 Dated: 02.09.2016
Date of Test	:	06.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/KRIDL /STEEL/2016-17

06.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/57/2016-17 Dated: 02.09.2016
Date of Test	:	06.09.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.15	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

13.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

*** Sample ID** : RCC Drain Bed Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 13.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2016	13.09.2016	8.135	329.6	14.65
2	06.09.2016	13.09.2016	8.216	333.5	14.82
3	06.09.2016	13.09.2016	8.357	342.2	15.21

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17 04.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

*** Sample ID** : RCC Drain Bed Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 04.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2016	04.10.2016	8.138	478.3	21.26
2	06.09.2016	04.10.2016	8.257	496.5	22.07
3	06.09.2016	04.10.2016	8.310	510.2	22.68

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

15.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

*** Sample ID** : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 15.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	15.09.2016	8.189	335.6	14.92
2	08.09.2016	15.09.2016	8.215	342.3	15.21
3	08.09.2016	15.09.2016	8.337	352.3	15.66

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

06.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

*** Sample ID** : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 06.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	06.10.2016	8.128	485.5	21.58
2	08.09.2016	06.10.2016	8.339	493.2	21.92
3	08.09.2016	06.10.2016	8.415	512.3	22.77

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17 16.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 16.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2016	16.09.2016	8.115	329.9	14.66
2	09.09.2016	16.09.2016	8.250	335.6	14.92
3	09.09.2016	16.09.2016	8.382	348.3	15.48

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17 07.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/57/2016-17 Dated: 02.09.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2016	07.10.2016	8.115	329.9	14.66
2	09.09.2016	07.10.2016	8.250	335.6	14.92
3	09.09.2016	07.10.2016	8.382	348.3	15.48

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/Pre Cast Slab/2016-17

13.09.2016

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

* Name of Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Construction of RCC drains at BHEL Mini colony balance roads and 1st, 2nd, 3rd, 5th Cross near Huchharangaiah house all either (2) sides in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/57/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre Cast Slab
Sample received on	:	08.09.2016
Date of Testing	:	13.09.2016

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Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.379	2506.79	1.54	0.955	32.30	16.45	17.77	16.97	21.21
2	50.00	78.00	0.386	2520.36	1.56	0.960	32.90	16.76	18.10	17.37	21.72
3	50.00	79.00	0.392	2527.14	1.58	0.965	33.50	17.06	18.43	17.78	22.23

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

AE-13

13/9

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

COMPLETION REPORT

1. Name of Work : **CONSTRUCTION OF RCC DRAINS AT BHEL MINI COLONY BALANCE ROADS AND 1ST, 2ND, 3RD, 5TH CROSS, NEAR HUCCHARANAGAIAH HOUSE ALL EITHER (2) SIDES IN WARD NO. 13, SHETTYHALLI SUB DIVISION.**

2. Sanctioned Estimate No. & Dt :

3. Head of Account which is Chargeable :

4. Work Order No. & Dt :

5. Name of Contractor : **TECHNICAL MANAGER (WEST) K.R.I.D.L**

6a. Time stipulated for completion of work :

b. Delay in execution of work : --

7. Measurement recorded in : M.B. No.....

8. Check measurement of the Asst. : M.B. No.....Page No.....

Asst. Exe. Eng. / Exe. Eng :

9. Name of the Office / Official : Page No.....

incharge of the work :

10. a) Asst. Engineer

b) Asst. Exe. Engineer

Sanctioned estimated amount	Amount claims as per actually vide as per bills	DIFFERENCE	
		Excess	Savings

1) Certified that the above work has been completed within the stipulated time noted in the work order.
2) Certified that the contractor has delayed and completed the work for which necessary fine has been recovered.
3) Certified that the above work has been executed by the contractor satisfactorily in accordance with the specification as embodied in the agreement.

ASST. ENGINEER

ASST. EXECUTIVE ENGINEER
SUB DIVISION
BRUHATH BANGALORE MAHANAGARA PALIKE

ACCOUNTS SUPTD. ( )